

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P166516

Luminaire Tested: **24ALNG-LD4-55-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166516
Test Lab: INNOVATION CENTER-P2
Test Date: 03/08/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD4-55-UNV-L835-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

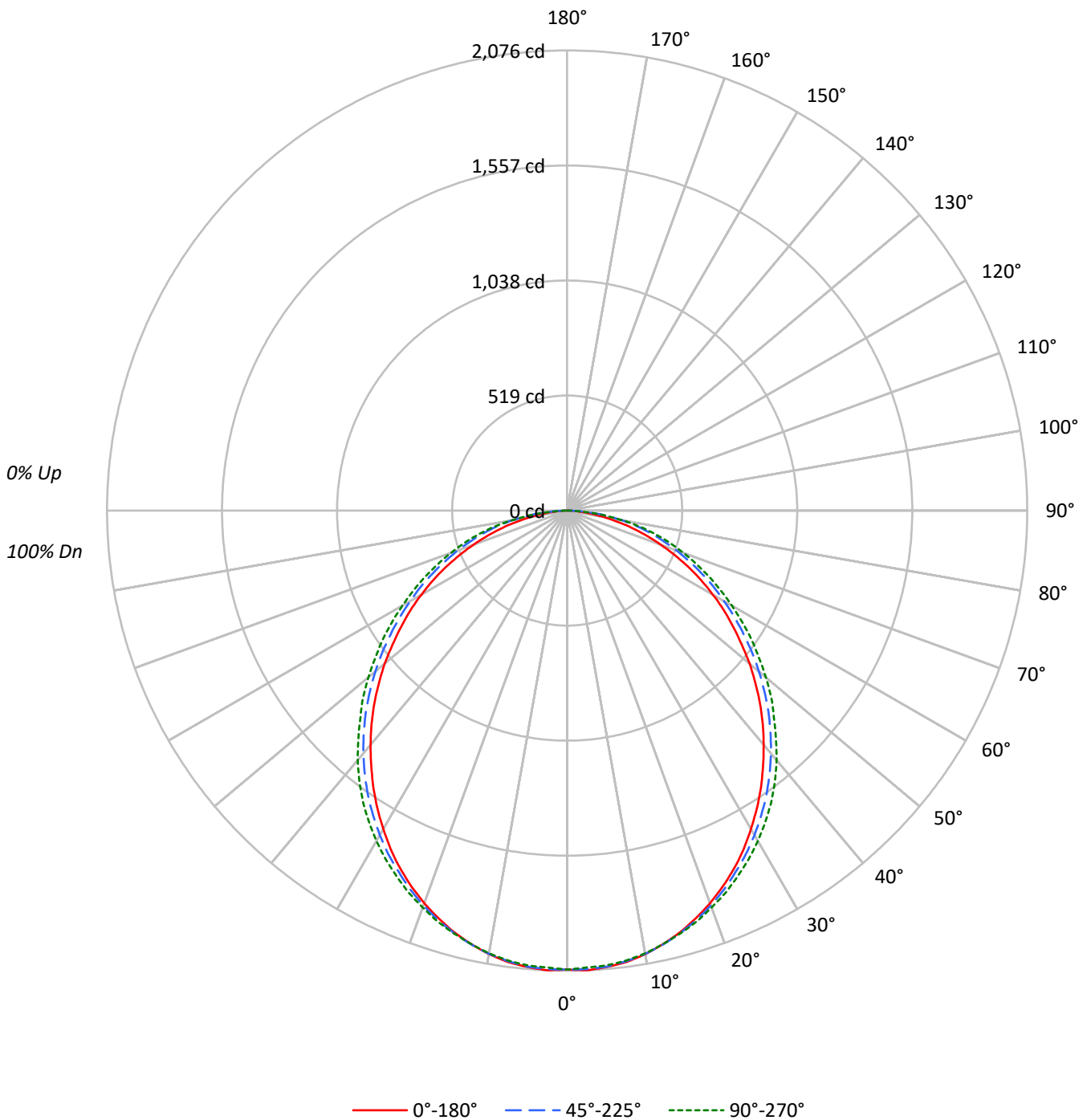
Lumens per Lamp: N/A
Luminaire Lumens: 5565.2 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 50.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2969	2969	2969
5°	2975	2972	2964
10°	2958	2956	2953
15°	2924	2929	2932
20°	2876	2893	2907
25°	2819	2846	2881
30°	2747	2798	2850
35°	2669	2743	2811
40°	2582	2679	2751
45°	2496	2604	2675
50°	2398	2520	2611
55°	2287	2430	2540
60°	2176	2345	2460
65°	2051	2269	2400
70°	1887	2195	2341
75°	1679	2137	2290
80°	1395	2063	2093
85°	1028	1722	1571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	3.5
10°-20°	555.5	10.0
20°-30°	828.1	14.9
30°-40°	977.0	17.6
40°-50°	985.3	17.7
50°-60°	865.6	15.6
60°-70°	654.9	11.8
70°-80°	392.9	7.1
80°-90°	110.1	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1579.3	28.4
0°-40°	2556.3	45.9
0°-60°	4407.3	79.2
0°-90°	5565.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5565.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2070	2070	2070	2070	2070	
5°	2067	2058	2065	2061	2060	196
15°	1970	1962	1973	1975	1975	555
25°	1782	1780	1799	1810	1821	820
35°	1525	1529	1567	1591	1606	953
45°	1231	1240	1284	1310	1319	949
55°	915	935	972	999	1016	819
65°	604	625	669	694	707	598
75°	303	338	386	408	413	322
85°	62	94	105	99	96	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2070.5	2070.5	2070.5	2070.5	2070.5
2.5°	2076.0	2065.0	2070.5	2070.5	2063.2
5°	2066.8	2057.7	2065.0	2061.3	2059.5
7.5°	2054.0	2043.0	2050.3	2048.5	2046.6
10°	2031.9	2020.9	2030.1	2028.3	2028.3
12.5°	2002.5	1995.2	2004.4	2002.5	2002.5
15°	1969.5	1962.1	1973.2	1975.0	1975.0
17.5°	1929.1	1923.5	1936.4	1940.1	1943.8
20°	1885.0	1881.3	1896.0	1897.8	1905.2
22.5°	1835.4	1831.7	1850.1	1857.4	1866.6
25°	1782.1	1780.2	1798.6	1809.6	1820.7
27.5°	1723.3	1723.3	1747.2	1761.9	1772.9
30°	1659.0	1662.7	1690.2	1708.6	1721.5
32.5°	1592.9	1598.4	1629.6	1651.6	1664.5
35°	1524.9	1528.6	1567.1	1591.0	1605.7
37.5°	1451.4	1460.6	1499.2	1524.9	1539.6
40°	1379.7	1388.9	1431.2	1455.1	1469.8
42.5°	1306.2	1315.4	1357.7	1385.2	1394.4
45°	1230.9	1240.1	1284.2	1309.9	1319.1
47.5°	1151.9	1166.6	1207.0	1232.8	1249.3
50°	1074.8	1087.6	1129.9	1155.6	1170.3
52.5°	992.1	1010.5	1050.9	1076.6	1091.3
55°	914.9	935.1	971.9	999.4	1016.0
57.5°	839.6	856.1	894.7	922.3	937.0
60°	758.8	779.0	817.6	843.3	858.0
62.5°	681.6	701.8	744.1	769.8	782.6
65°	604.4	624.6	668.7	694.5	707.3
67.5°	525.4	549.3	595.3	621.0	632.0
70°	450.1	477.7	523.6	549.3	558.5
72.5°	374.8	406.0	453.8	477.7	486.9
75°	303.1	338.0	385.8	407.9	413.4
77.5°	233.3	271.9	317.8	336.2	338.0
80°	169.0	207.6	249.9	255.4	253.5
82.5°	110.2	150.7	178.2	172.7	172.7
85°	62.5	93.7	104.7	99.2	95.5
87.5°	27.6	40.4	36.7	31.2	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)